

DD-1920-HDMI-T (Preliminary)

4mm Thick Full-HD LCD Controller

The DD-1920-HDMI-T LCD controller is an adaption on the existing and well-established DD-1290-HDMI controller redesigned to reduce the thickness to within 4mm.

Designed to support 8 bit LCD panels up to 1920x1200 resolution with LVDS input it provides HDMI input via a micro-HDMI connector. Both standard and custom panel and input resolutions are supported.

Key Features:

- » Up to 1920x1200 input / Up to 1920x1200 LCD panels
- » HDMI 1.4, Micro-HDMI connector
- » LVDS panel connection @60Hz
- » Very low latency
- » RS-232, I2C for command & control
- » Harsh environment version to be released following this model

Panel Connectivity

LVDS up to 1920 x 1200 @60Hz

Standard and custom panel resolutions are supported

Input

HDMI 1.4 60Hz up to 1920x1200
75Hz up to 1280x1024

Reliability

Calculated MTBF: In excess of 250,000 hours
Warranty: 3 years

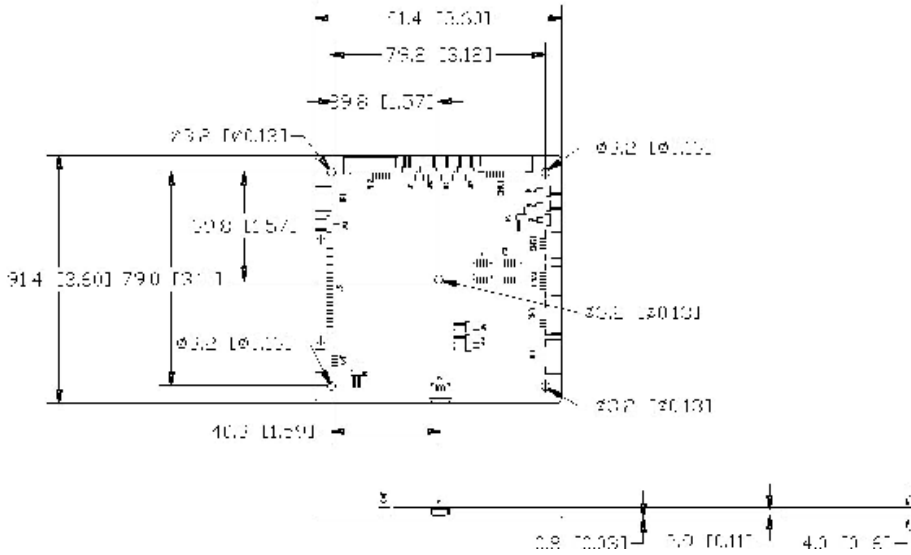
Features

- Colors:** Up to 8 bit per color
- Function Display:** On Screen Display (OSD) menu
- Function Controls:** External buttons, Infra-Red controls, Serial Port
- Image Scaling:** Up / Down scaling to fit input to panel resolution
- Image Control:** Brightness, Contrast, Color Temperature, Image position, Saturation, Hue, Sharpness
- Communication:** RS-232, I2C
- Firmware upgrade:** RS-232, Smart-ISP
- Power:** +12VDC / +24VDC ±5%, 10W (controller only)
- Panel Power:** Supports 3.3V, 5V, 12V panels
- Panel Signal:** LVDS
- Inverter Support:** DPMS Enable pin (3.3V or 5V), PWM
- Plug & Play:** DDC 1,2/b compatible
- Status Indicator:** Dual color LED support
- Audio:** Analog line-out
- Size:** 91.4mm x 91.4mm x 4mm



DD-1920-HDMI-T 4mm Thick LCD Controller

Mechanical Drawing



Connector Definitions

CN1	Stereo audio out from HDMI
CN8	RS-232 serial control
CNA1	Ambient light sensor connector
CNB1	Reserved for fan & backlight power monitoring
CNC1	SPDIF Audio output
IR1	Reserved
J3	Reserved for Line in
P1	Reserved for Speaker out
PP2	Power connector for IE-2000

Ordering Options

DD-1920-HDMI-T

P/N: TBA

Accessories - TBA

Drawings

- » 2D (jpg)
- » 3D (SLDPRT)

Download at:

TBA

Available Resources

- » Instruction manual
 - » Revision control documentation
 - » Firmware upgrade manual**
 - » Mechanical drawing
 - » Custom engineering: Splash screen, OSD menu, coatings, & more...
- ** Available on request

Controller Solution Generator

<http://www.digitalview.com/csg>



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